EXHIBIT 6



Top 300 Organizations Granted U.S. Patents in 2017

Are more patents better?

IPO does not attempt to answer the question above. IPO publishes patent owner lists as an information service for IPO members.

This list of organizations that received the most U.S. utility patents is being published by IPO for the 35th consecutive year. It is based on data obtained from the U.S. Patent and Trademark Office.

Patents granted to parent and subsidiary companies are combined in many instances. See the end notes for more information. IPO makes reasonable efforts to avoid errors, but cannot guarantee accuracy.

18 June 2018

2017 Patent Owners Numerical Listing

Use care in interpreting the "percent change from 2016" column. The total number of patents granted by the USPTO in 2017 was 318,829, up 5 percent from 2016. The percent change for an individual organization could be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2016 and 2017, and many other factors.

Rank	Organization	2017 Patents	Percent Change From 2016	Rank	c Organization	2017 Patents	Percent Change From 2016
1	International Business	8,996	10.8	38	Cisco Technology, Inc.	989	0.2
•	Machines Corp.	0,220		39	Koninklijke Philips N.V.	973	-14.2
2	Samsung Electronics Co., Ltd.	5,810	5.3		Semiconductor Energy	973	-8.3
3	Intel Corp.	3,726	8.4		Laboratory Co., Ltd.		
4	Canon K.K.	3,664	-5.5	41	SK Hynix Inc.	938	-18.1
5	Alphabet Inc.	3,065	new	42	Texas Instruments, Inc.	923	3.9
6	General Electric Co.	2,989	14.2	43	Denso Corp.	863	18.7
7	Qualcomm, Inc.	2,728	-14.3	44	Honda Motor Co., Ltd.	854	-1.9
8	LG Electronics Inc.	2,696	10.0	45	Western Digital Corp.	837	-27.4
9	Microsoft Corp.	2,601	1.7	46	NEC Corp.	816	-7.8
10	Taiwan Semiconductor	2,408	6.1	47	Micron Technology, Inc.	807	-9.3
	Manufacturing Co., Ltd.			48	Globalfoundries Inc.	782	-73.9
11	Samsung Display Co., Ltd.	2,266	11.3	49	The Dow Chemical Co.	765	7.8
12	Apple, Inc.	2,225	5.6	50	Oracle International Corp.	753	12.1
13	Sony Corp.	2,116	-2.5	51	Halliburton Energy	738	25.6
14	Toyota Jidosha K.K.	2,015	23.6		Services, Inc.		
15	Amazon Technologies, Inc.	1,960	15.2	52	Verizon	715	-5.5
16	Toshiba Corp.	1,891	-1.5	53	Shenzhen China	709	30.5
17	Ford Global Technologies, LLC	1,876	18.4		Star Optoelectronics		
18	Dell Technologies	1,681	3.2	5.4	Technology Co., Ltd.	705	21.2
19	Telefonaktiebolaget	1,551	-0.1	54 5.5	Brother Kogyo K.K.	705	-31.3
• •	LM Ericsson				Fujifilm Corp.	691	-1.2
20	Siemens AG	1,538	3.6	56	Schlumberger Technology Corp.	680	-0.7
21	Fujitsu Ltd.	1,531	-2.1	57	Sharp Corp.	679	-20.5
22	Huawei Technologies Co., Ltd.	1,472	18.6	58	Infineon Technologies AG	677	8.7
23	United Technologies Corp.	1,423	23.0	59	STMicroelectronics, Inc.	675	-9.2
24	Medtronic Inc.	1,414	-1.9	60	Facebook, Inc.	660	33.0
25	Seiko Epson Corp.	1,404	-17.1	61	LG Chem., Ltd.	634	24.6
	Nokia Corp.	1,381	new	62	Kyocera Document Solutions Inc.	632	-17.1
27	BOE Technology	1,376	40.8	63	HP Inc.	630	-4.1
20	Group Co., Ltd. Panasonic Intellectual Property	1,338	-4.6		Olympus Corp.	613	9.5
20	Management Co., Ltd.	1,556	-4.0	65	LG Display Co., Ltd.	604	-5.6
29	Hyundai Motor Co.	1,295	20.3	66	3M Innovative Properties Co.	602	11.5
30	AT&T Corp.	1,263	-0.2	00	NXP USA, Inc.	602	new
31	Boeing Co.	1,171	10.2	68	Renesas Electronics Corp.	601	2.0
32	Robert Bosch GmbH	1,158	3.1	69	Caterpillar Inc.	595	15.5
33	Johnson & Johnson	1,147	18.7	70	Applied Materials, Inc.	590	-1.9
	Mitsubishi Denki K.K.	1,142	11.5	70	Xerox Corp.	586	-30.0
	Ricoh Co., Ltd.	1,140	-23.2	72	Electronics and	585	-12.8
36	GM Global Technology Operations LLC	1,063	-4.9	72	Telecommunications Research Institute	303	12.0
37	Honeywell International Inc.	1,036	20.8	73	Fuji Xerox Co., Ltd.	569	-1.9
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	Patent Owners erical Listing	2017	Percent Change			2017	Percent Change
Rank	c Organization	Patents	From 2016	Ranl	c Organization	Patents	From 2016
74	Murata Manufacturing Co., Ltd.	563	16.9	116	Industrial Technology	312	-19.9
75	Japan Display Inc.	553	15.6		Research Institute, Taiwan		
76	Corning Inc.	547	28.0	117	Koch Industries	310	50.6
77	University of California, The Regents of	524	3.6	118	Massachusetts Institute of Technology	306	9.2
78	SAP AG	521	4.6	119	TE Connectivity	301	8.0
79	LG Innotek Co., Ltd.	520	11.7	120	Fanuc Corp.	299	32.1
80	Kyocera Corp.	509	23.8	121	NXP B.V.	296	2.0
81	Blackberry Ltd.	506	-52.0	122	Elwha LLC	294	22.4
82	Hewlett Packard Enterprise	505	-21.8	123	InterDigital Technology Corp.	291	5.8
83	Konica Minolta, Inc.	495	9.9	124	Bayer Intellectual	290	52.4
84	Hitachi, Ltd.	491	-4.3		Property GmbH		
85	Procter & Gamble Co.	469	15.4		Bank of America Corp.	288	3.1
86	DuPont	465	-10.3		Rohm Co., Ltd.	286	0.7
87	Commissariat a l'Energie	458	3.5	127	Sanofi	284	-5.6
	Atomique et aux				Whirlpool Corp.	284	22.2
	Energies Alternatives			129	Samsung Electro-	281	-46.6
88	Seagate Technology, LLC	457	-14.2		Mechanics Co., Ltd.		10.4
89	Monsanto Technology, LLC	434	-26.0	130	Fuji Electric Co., Ltd.	279	19.4
90	Avago Technologies General IP	431	24.8		Nvidia Corp.	279	-25.4
	(Singapore) Pte. Ltd.				CNH Industrial America LLC	272	44.5
91	Mitsubishi Heavy Industries, Ltd.	427	7.0	133	Hon Hai Precision Industry Co., Ltd.	271	-57.9
92	BASF SE	415	-1.9		Schaeffler Technologies	271	29.2
93	ZTE Corp.	407	-16.0	125	AG & Co. KG	270	25.6
94	Tokyo Electron Ltd.	403	3.7		Commscope Technologies LLC	270	25.6
95	Mediatek Inc.	398	29.6		Novartis AG	262	5.7
96	Becton Dickinson and Co.	397	35.8		Juniper Networks, Inc.	259	5.4
	Samsung SDI Co., Ltd.	397	-9.1		Eaton Corp.	257	16.7
98	Sprint Corp.	391	-30.7	139	Sumitomo Electric Industries, Ltd.	255	-5.5
99	Nike, Inc.	372	-11.6	140	Illinois Tool Works Inc.	250	10.8
100	Rolls-Royce PLC	359	26.5		Stryker Corp.	244	21.7
	Nissan Motor Co., Ltd.	357	11.2		ABB Ltd.	243	-30.5
102	Tencent Technology	354	25.1	142	NetApp, Inc.	243	-3.3
	(Shenzhen) Co. Ltd.			144	Infineon Technologies	243	18.2
	United States of America, Navy	354	5.1	144	Austria AG	242	16.2
	United Microelectronics Corp.	351	7.7		Thomson Licensing S.A.	242	-7.4
	Yazaki Corp.	349	-12.9	146	Hitachi Automotive	235	16.2
	Futurewei Technologies, Inc.	345	0.3		Systems, Ltd.		
	Dolby Laboratories, Inc.	344	32.8		Saint-Gobain Corp.	235	10.2
	ExxonMobil Corp.	339	-18.0		Societe Nationale d'Etude et	235	18.7
	Raytheon Co.	336	-9.8		de Construction de Moteurs		
	Adobe Systems Inc.	334	-5.4		d'Aviation		
	Deere & Co.	328	27.1		Marvell International Ltd.	231	new
	Roche Holdings, Inc.	323	-20.1		Disney Enterprises, Inc.	227	14.1
	Boston Scientific Scimed, Inc.	320	2.8	151	ASML Netherlands B.V.	223	-0.9
114	Empire Technology	314	-8.9		Audi AG	223	10.8
	Development LLC	214			Ebay Inc.	220	20.0
	Philips Lighting Holding B.V.	314	new	154	University of Texas	219	26.0
				155	Saudi Arabian Oil Co.	218	21.6
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	Patent Owners erical Listing	2017	Percent Change			2017	Percent Change
Rank	c Organization	Patents	From 2016	Rank	c Organization	Patents	From 2016
156	Semiconductor Components	217	6.5		Lockheed Martin Corp.	171	-11.1
	Industries, LLC				Panasonic Intellectual Property	171	-78.9
	Symantec Corp.	214	0.9	202	Corp. of America	450	45.4
	Nikon Corp.	212	-0.5		Nitto Denko Corp.	170	-17.1
159	Salesforce.com, Inc.	211	-6.2		LSIS Co., Ltd.	169	30.8
	Shin Etsu Chemical Co., Ltd.	211	3.3	204	Haier US Appliance	168	new
161	Casio Computer Co. Ltd.	206	-7.3	205	Solutions, Inc. King Fahd University of	167	now
	Cree, Inc.	206	-17.0	203	Petroleum and Minerals	107	new
	Merck Patent GmbH	206	18.4		Mahle International GmbH	167	26.9
4 - 5	Skyworks Solutions, Inc.	206	new	207	Johns Hopkins University	164	-1.8
165	CA, Inc.	204	10.3		Ecolab USA Inc.	163	14.7
	Stanford University	204	-19.6		Airbus Operations S.A.S.	162	4.9
	Sun Patent Trust	204	42.2		Comcast Cable	162	new
	Xperi Corp.	204	6.4		Communications, LLC		
	Merck & Co., Inc.	203	3.0		Foxconn Interconnect	162	9.3
	Paypal. Inc.	202	27.7		Technology Ltd.		
	LAM Research Corp.	201	10.9		Wisconsin Alumni	162	-3.7
172	Airbus Operations GmbH	200	-10.5		Research Foundation		
	HTC Corp.	200	-7.5	213	Nintendo Co., Ltd.	161	-28.6
	Nichia Corp.	196	25.5		Rambus, Inc.	161	-5.6
175	ARM Ltd.	195	40.5		Cooper Technologies Co.	159	15.7
	Avaya Inc.	195	3.1	216	Hitachi Metals Ltd.	158	-12.7
	TDK Corp.	194	22.2		IGT	158	-56.3
	Komatsu Ltd.	193	21.2	218	Nippon Steel & Sumitomo	157	2.5
179	KLA-Tencor Corp.	192	13.5	210	Metal Corp.	156	42.2
	NTT Docomo, Inc.	192	-12.0	219	AU Optronics Corp.	156 156	-42.3
1.00	Red Hat, Inc.	192	-5.2		Harvard College, President and Fellows	130	new
182	Continental Automotive GmbH	189	21.2	221	Daikin Industries Ltd.	155	0.0
101	Sumitomo Chemical Co., Ltd.	189	9.5		BAE Systems	154	-10.4
	Wistron Corp.	187	-69.5	222	Syngenta Participations AG	154	16.9
185	Cook Medical Technologies LLC	186	-11.3	224	Cardiac Pacemakers, Inc.	153	-3.9
186	Hitachi High-	185	-9.7		Accenture Global Services Ltd.	152	3.9
100	Technologies Corp.	105	-9.1	223	Northrop Grumman Systems	152	new
187	Osram Opto	184	12.5		Corp.		
	Semiconductors GmbH			227	Aisin Seiki K.K.	151	2.0
188	Sumitomo Wiring Systems, Ltd.	183	24.6		Carl Zeiss SMT GmbH	151	15.2
189	Semiconductor Manufacturing	182	18.7		Shimadzu Corp.	151	14.6
	International (Shanghai) Corp.			230	California Institute	150	-34.0
190	Lenovo (Singapore) Pte. Ltd.	179	-2.8		of Technology		
	Rockwell Automation	179	21.2		Chevron USA Inc.	150	14.0
400	Technologies, Inc.	450	12.0		Globus Medical Inc.	150	2.7
	Thales	178	12.9		Marvell World Trade Ltd.	150	new
	Aktiebolaget SKF	177	15.8		Nielsen	150	-12.7
194	Bally Gaming, Inc.	176	-19.9	235	L'Oreal S.A.	149	23.5
100	Tsinghua University	176	-1.7		Panasonic Corp.	149	2.7
	Bayerische Motoren Werke AG	174	28.2	237	Here Global B.V.	148	19.6
197	Echostar Technologies LLC	172	14.5		Omron Corp.	148	10.8
100	Rockwell Collins, Inc.	172	21.5		Synaptics, Inc.	148	new
199	Bridgestone Corp.	171	-15.2				

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Num	Patent Owners erical Listing	2017	Percent Change			2017	Percent Change
Ranl	•	Patents	From 2016	Rank	•	Patents	From 2016
240	Macronix International Co., Ltd.	147	-59.9	282	Centre National de la Recherche	126	-1.6
	Shimano Inc.	147	-6.1		Scientifique - CNRS	100	22.5
	ZF Friedrichshafen, AG	147	-11.6		Cypress Semiconductor Corp.	126	-32.5
	Kobe Steel, Ltd.	145	13.8	205	Stanley Black & Decker, Inc.	126	4.0
244	Delta Electronics Inc.	144	8.3		Qorvo US, Inc.	125	new
	Jtekt Corp.	144	-4.9	286	Arris Enterprises, LLC	124	8.9
246	Innolux Corp.	143	new		T-Mobile, USA, Inc.	124	new
247	Evonik Degussa GmbH	142	new		UOP	124	-44.4
	Toyoda Jidoshokki	142	new	289	Delphi Technologies, Inc.	121	new
	Seisakusho K.K.				HRL Laboratories, LLC	121	4.1
	United States of America, Army	142	4.2	291	Broadcom Corp.	119	-590.8
250	Borgwarner Inc.	141	new		Sumitomo Rubber	119	-3.4
	Kawasaki Jukogyo K.K.	141	-6.4	202	Industries, Ltd.	110	<i>c</i> 0
252	Acushnet Co.	140	10.0	293	Intuitive Surgical Operations, Inc.	118	-6.8
	Bose Corp.	140	new	204	United States of America,	117	1.7
	Compagnie Generale des Etablissements Michelin	140	19.3	294	National Aeronautics and Space Administration	117	1.7
	Nuance Communications, Inc.	139	4.3	295	DSM IP Assets B.V.	116	-24.1
256	Analog Devices, Inc.	138	2.2		NGK Spark Plug Co., Ltd.	116	-6.0
	Xiaomi Inc.	138	new		University of South Florida	116	1.7
258	Advanced Micro Devices, Inc.	137	-54.7	298	Acer Inc.	115	4.3
	Hyundai Mobis, Co., Ltd.	137	13.9	2,0	General Hospital Corp.	115	new
260	Nestec, S.A.	136	-22.1		Hitachi Kokusai Electric Inc.	115	-18.3
	Open Invention Network, LLC	136	11.8		JFE Steel Corp.	115	new
	Toray Industries Inc.	136	5.1		Smith & Nephew, Inc.	115	-85.2
263	Boston Scientific Neuromodulation Corp.	134	-30.6		Simu & Nepnew, nic.	113	-03.2
	Xilinx, Inc.	134	-15.7				
265	Lenovo (Beijing) Ltd.	133	new				
	Sonos, Inc.	133	new				
267	Abbott Cardiovascular Systems, Inc.	132	-0.8				
	United States of America, Department of Health & Human Services	132	-11.4				
269	Alibaba Group Holding Ltd.	130	new				
	Lenovo Enterprise Solutions (Singapore) Pte. Ltd.	130	-56.2				
271	Bristol-Myers Squibb Co.	129	14.0				
	Citrix Systems, Inc.	129	-33.3				
	Huawei Device Co., Ltd.	129	-17.1				
	Yamaha Motor Co., Ltd.	129	10.1				
275	Colgate-Palmolive Co.	128	new				
	Excalibur IP, LLC	128	new				
	Motorola Solutions, Inc.	128	-37.5				
	Rovi Guides, Inc.	128	new				
	University of Michigan	128	-10.9				
280	Ciena Corp.	127	new				
	NTN Corp.	127	2.4				

2017 Patent Owners Alphabetical Listing

Use care in interpreting the "percent change from 2016" column. The total number of utility patents granted by the USPTO in 2017 was 318,829, up 5 percent from 2016. The percent change for an individual organization might be affected by mergers, acquisitions, divestitures, inconsistent treatment of subsidiaries in 2016 and 2017, and other factors.

Rank	c Organization	2017 Patents	Percent Change From 2016	Rank	c Organization	2017 Patents	Percent Change From 2016
66	3M Innovative Properties Co.	602	11.5	263	Boston Scientific	134	-30.6
142	ABB Ltd.	243	-30.5		Neuromodulation Corp.		
267	Abbott Cardiovascular	132	-0.8	113	Boston Scientific Scimed, Inc.	320	2.8
	Systems, Inc.			199	Bridgestone Corp.	171	-15.2
225	Accenture Global Services Ltd.	152	3.9	271	Bristol-Myers Squibb Co.	129	14.0
298	Acer Inc.	115	4.3	291	Broadcom Corp.	119	-590.8
252	Acushnet Co.	140	10.0	54	Brother Kogyo K.K.	705	-31.3
110	Adobe Systems Inc.	334	-5.4	165	CA, Inc.	204	10.3
258	Advanced Micro Devices, Inc.	137	-54.7	230	California Institute	150	-34.0
172	Airbus Operations GmbH	200	-10.5		of Technology		
209	Airbus Operations S.A.S.	162	4.9	4	Canon K.K.	3,664	-5.5
227	Aisin Seiki K.K.	151	2.0	224	Cardiac Pacemakers, Inc.	153	-3.9
193	Aktiebolaget SKF	177	15.8	227	Carl Zeiss SMT GmbH	151	15.2
269	Alibaba Group Holding Ltd.	130	new	161	Casio Computer Co. Ltd.	206	-7.3
5	Alphabet Inc.	3,065	new	69	Caterpillar Inc.	595	15.5
15	Amazon Technologies, Inc.	1,960	15.2	282	Centre National de la	126	-1.6
256	Analog Devices, Inc.	138	2.2		Recherche Scientifique - CNRS		
12	Apple, Inc.	2,225	5.6	230	Chevron USA Inc.	150	14.0
70	Applied Materials, Inc.	590	-1.9	280	Ciena Corp.	127	new
175	ARM Ltd.	195	40.5	38	Cisco Technology, Inc.	989	0.2
286	Arris Enterprises, LLC	124	8.9	271	Citrix Systems, Inc.	129	-33.3
151	ASML Netherlands B.V.	223	-0.9	132	CNH Industrial America LLC	272	44.5
30	AT&T Corp.	1,263	-0.2	275	Colgate-Palmolive Co.	128	new
219	AU Optronics Corp.	156	-42.3	209	Comcast Cable	162	new
151	Audi AG	223	10.8	07	Communications, LLC	450	2.5
90	Avago Technologies General IP (Singapore) Pte. Ltd.	431	24.8	87	Commissariat a l'Energie Atomique et aux Energies Alternatives	458	3.5
175	Avaya Inc.	195	3.1	135	Commscope Technologies LLC	270	25.6
222	BAE Systems	154	-10.4	252	Compagnie Generale des	140	19.3
194	Bally Gaming, Inc.	176	-19.9	232	Etablissements Michelin	1.0	
125	Bank of America Corp.	288	3.1	182	Continental Automotive GmbH	189	21.2
92	BASF SE	415	-1.9	185	Cook Medical	186	-11.3
	Bayer Intellectual	290	52.4		Technologies LLC		
	Property GmbH	_, _,		215	Cooper Technologies Co.	159	15.7
196	Bayerische Motoren Werke AG	174	28.2	76	Corning Inc.	547	28.0
96	Becton Dickinson and Co.	397	35.8	161	Cree, Inc.	206	-17.0
81	Blackberry Ltd.	506	-52.0	282	Cypress Semiconductor Corp.	126	-32.5
27	BOE Technology	1,376	40.8	221	Daikin Industries Ltd.	155	0.0
	Group Co., Ltd.			111	Deere & Co.	328	27.1
31	Boeing Co.	1,171	10.2	18	Dell Technologies	1,681	3.2
250	Borgwarner Inc.	141	new	289	Delphi Technologies, Inc.	121	new
252	Bose Corp.	140	new				

	7 Patent Owners nabetical Listing	2017	Percent Change			2017	Percent Change
Ran	k Organization	Patents	From 2016	Ran	k Organization	Patents	From 2016
244	Delta Electronics Inc.	144	8.3	133	Hon Hai Precision	271	-57.9
43	Denso Corp.	863	18.7		Industry Co., Ltd.	0.74	1.0
150	Disney Enterprises, Inc.	227	14.1	44	Honda Motor Co., Ltd.	854	-1.9
107	Dolby Laboratories, Inc.	344	32.8	37	Honeywell International Inc.	1,036	20.8
295	DSM IP Assets B.V.	116	-24.1	63	HP Inc.	630	-4.1
86	DuPont	465	-10.3	289	HRL Laboratories, LLC	121	4.1
138	Eaton Corp.	257	16.7	172	HTC Corp.	200	-7.5
153	Ebay Inc.	220	20.0	271	Huawei Device Co., Ltd.	129	-17.1
197	Echostar Technologies LLC	172	14.5	22	Huawei Technologies Co., Ltd.	1,472	18.6
208	Ecolab USA Inc.	163	14.7	258	Hyundai Mobis, Co., Ltd.	137	13.9
72	Electronics and	585	-12.8	29	Hyundai Motor Co.	1,295	20.3
	Telecommunications			140	Illinois Tool Works Inc.	250	10.8
122	Research Institute Elwha LLC	294	22.4	116	Industrial Technology Research Institute, Taiwan	312	-19.9
114	Empire Technology	314	-8.9	58	Infineon Technologies AG	677	8.7
	Development LLC			144	Infineon Technologies	242	18.2
247	Evonik Degussa GmbH	142	new		Austria AG		
275	Excalibur IP, LLC	128	new	246	Innolux Corp.	143	new
108	ExxonMobil Corp.	339	-18.0	3	Intel Corp.	3,726	8.4
60	Facebook, Inc.	660	33.0	123	InterDigital Technology Corp.	291	5.8
120	Fanuc Corp.	299	32.1	1	International Business	8,996	10.8
17	Ford Global Technologies, LLC	1,876	18.4		Machines Corp.		
209	Foxconn Interconnect	162	9.3	216	IGT	158	-56.3
	Technology Ltd.			293	Intuitive Surgical Operations, Inc.	118	-6.8
130	Fuji Electric Co., Ltd.	279	19.4	75	Japan Display Inc.	553	15.6
73	Fuji Xerox Co., Ltd.	569	-1.9	298	JFE Steel Corp.	115	new
55	Fujifilm Corp.	691	-1.2	298	Johns Hopkins University	164	-1.8
21	Fujitsu Ltd.	1,531	-2.1	33	Johnson & Johnson	1,147	18.7
106	Futurewei Technologies, Inc.	345	0.3	244	Jtekt Corp.	1,147	-4.9
6	General Electric Co.	2,989	14.2	137	Juniper Networks, Inc.	259	5.4
298	General Hospital Corp.	115	new	250	Kawasaki Jukogyo K.K.	141	-6.4
48	Globalfoundries Inc.	782	-73.9	205	King Fahd University of	167	new
230	Globus Medical Inc.	150	2.7	203	Petroleum and Minerals	107	new
36	GM Global Technology Operations LLC	1,063	-4.9	179	KLA-Tencor Corp.	192	13.5
204	Haier US Appliance	168	new	243	Kobe Steel, Ltd.	145	13.8
	Solutions, Inc.			117	Koch Industries	310	50.6
51	Halliburton Energy	738	25.6	178	Komatsu Ltd.	193	21.2
	Services, Inc.			83	Konica Minolta, Inc.	495	9.9
219	Harvard College, President and Fellows	156	new	39 80	Koninklijke Philips N.V. Kyocera Corp.	973 509	-14.2 23.8
237	Here Global B.V.	148	19.6	62	Kyocera Document	632	-17.1
82	Hewlett Packard Enterprise	505	-21.8	02	Solutions Inc.	032	-17.1
146	Hitachi Automotive	235	16.2	171	LAM Research Corp.	201	10.9
104	Systems, Ltd. Hitachi High-	185	-9.7	265	Lenovo (Beijing) Ltd.	133	new
186	Technologies Corp.	103	-7.1	190	Lenovo (Singapore) Pte. Ltd.	179	-2.8
298	Hitachi Kokusai Electric Inc.	115	-18.3	269	Lenovo Enterprise Solutions (Singapore) Pte. Ltd.	130	-56.2
216	Hitachi Metals Ltd.	158	-12.7	61	LG Chem., Ltd.	634	24.6
84	Hitachi, Ltd.	491	-4.3				

	7 Patent Owners nabetical Listing	2017	Percent Change			2017	Percent Change
Ran	k Organization	Patents	From 2016	Ranl	k Organization	Patents	From 2016
65	LG Display Co., Ltd.	604	-5.6	237	Omron Corp.	148	10.8
8	LG Electronics Inc.	2,696	10.0	260	Open Invention Network, LLC	136	11.8
79	LG Innotek Co., Ltd.	520	11.7	50	Oracle International Corp.	753	12.1
199	Lockheed Martin Corp.	171	-11.1	187	Osram Opto	184	12.5
235	L'Oreal S.A.	149	23.5		Semiconductors GmbH	1.40	2.7
203	LSIS Co., Ltd.	169	30.8	235	Panasonic Corp.	149	2.7
240	Macronix International Co., Ltd.	147	-59.9	199	Panasonic Intellectual Property Corp. of America	171	-78.9
205	Mahle International GmbH	167	26.9	28	Panasonic Intellectual Property	1,338	-4.6
149	Marvell International Ltd.	231	new	20	Management Co., Ltd.	1,550	1.0
230	Marvell World Trade Ltd.	150	new	170	Paypal. Inc.	202	27.7
118	Massachusetts Institute	306	9.2	114	Philips Lighting Holding B.V.	314	new
0.5	of Technology	200	20.6	85	Procter & Gamble Co.	469	15.4
95	Mediatek Inc.	398	29.6	285	Qorvo US, Inc.	125	new
24	Medtronic Inc.	1,414	-1.9	7	Qualcomm, Inc.	2,728	-14.3
169	Merck & Co., Inc.	203	3.0	213	Rambus, Inc.	161	-5.6
161	Merck Patent GmbH	206	18.4	109	Raytheon Co.	336	-9.8
47	Micron Technology, Inc.	807	-9.3	179	Red Hat, Inc.	192	-5.2
9	Microsoft Corp.	2,601	1.7	68	Renesas Electronics Corp.	601	2.0
34	Mitsubishi Denki K.K.	1,142	11.5	35	Ricoh Co., Ltd.	1,140	-23.2
91	Mitsubishi Heavy Industries, Ltd.	427	7.0	32	Robert Bosch GmbH	1,158	3.1
89	Monsanto Technology, LLC	434	-26.0	112	Roche Holdings, Inc.	323	-20.1
275	Motorola Solutions, Inc.	128	-37.5	190	Rockwell Automation	179	21.2
74	Murata Manufacturing Co., Ltd.	563	16.9		Technologies, Inc.		
46	NEC Corp.	816	-7.8	197	Rockwell Collins, Inc.	172	21.5
260	Nestec, S.A.	136	-22.1	126	Rohm Co., Ltd.	286	0.7
142	NetApp, Inc.	243	-3.3	100	Rolls-Royce PLC	359	26.5
295	NGK Spark Plug Co., Ltd.	116	-6.0	275	Rovi Guides, Inc.	128	new
174	Nichia Corp.	196	25.5	146	Saint-Gobain Corp.	235	10.2
230	Nielsen	150	-12.7	159	Salesforce.com, Inc.	211	-6.2
99	Nike, Inc.	372	-11.6	11	Samsung Display Co., Ltd.	2,266	11.3
158	Nikon Corp.	212	-0.5	129	Samsung Electro-	281	-46.6
213	Nintendo Co., Ltd.	161	-28.6		Mechanics Co., Ltd.	5 010	5 2
218	Nippon Steel & Sumitomo	157	2.5	2	Samsung Electronics Co., Ltd.	5,810	5.3
210	Metal Corp.	137	2.3	96	Samsung SDI Co., Ltd.	397	-9.1
101	Nissan Motor Co., Ltd.	357	11.2	127	Sanofi	284	-5.6
202	Nitto Denko Corp.	170	-17.1	78 155	SAP AG	521	4.6
26	Nokia Corp.	1,381	new	155	Saudi Arabian Oil Co.	218	21.6
225	Northrop Grumman	152	new	133	Schaeffler Technologies AG & Co. KG	271	29.2
	Systems Corp.			56	Schlumberger Technology Corp.	680	-0.7
136	Novartis AG	262	5.7	88	Seagate Technology, LLC	457	-14.2
280	NTN Corp.	127	2.4	25	Seiko Epson Corp.	1,404	-17.1
179	NTT Docomo, Inc.	192	-12.0	156	Semiconductor Components	217	6.5
255	Nuance Communications, Inc.	139	4.3	150	Industries, LLC	217	3.3
130	Nvidia Corp.	279	-25.4	39	Semiconductor Energy	973	-8.3
121	NXP B.V.	296	2.0		Laboratory Co., Ltd.		
66	NXP USA, Inc.	602	new	189	Semiconductor Manufacturing	182	18.7
64	Olympus Corp.	613	9.5		International (Shanghai) Corp.		

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2017 Patent Owners Alphabetical Listing		2017	Percent Change			2017	Percent Change
Ran	k Organization	Patents	From 2016	Ran	k Organization	Patents	From 2016
57	Sharp Corp.	679	-20.5	14	Toyota Jidosha K.K.	2,015	23.6
53	Shenzhen China	709	30.5	194	Tsinghua University	176	-1.7
	Star Optoelectronics			104	United Microelectronics Corp.	351	7.7
225	Technology Co., Ltd.	151	146	247	United States of America, Army	142	4.2
227	Shimadzu Corp.	151	14.6	267	United States of America,	132	-11.4
240	Shimano Inc.	147	-6.1		Department of Health &		
159	Shin Etsu Chemical Co., Ltd.	211	3.3	20.4	Human Services	117	1.7
20	Siemens AG	1,538	3.6	294	United States of America, National Aeronautics and	117	1.7
41	SK Hynix Inc.	938	-18.1		Space Administration		
161	Skyworks Solutions, Inc.	206	new	102	United States of America, Navy	354	5.1
298	Smith & Nephew, Inc.	115	-85.2	23	United Technologies Corp.	1,423	23.0
146	Societe Nationale d'Etude et de Construction de Moteurs d'Aviation	235	18.7	77	University of California, The Regents of	524	3.6
265	Sonos, Inc.	133	new	275	University of Michigan	128	-10.9
13	Sony Corp.	2,116	-2.5	295	University of South Florida	116	1.7
98	Sprint Corp.	391	-30.7	154	University of Texas	219	26.0
165	Stanford University	204	-19.6	286	UOP	124	-44.4
282	Stanley Black & Decker, Inc.	126	4.0	52	Verizon	715	-5.5
59	STMicroelectronics, Inc.	675	-9.2	45	Western Digital Corp.	837	-27.4
141	Stryker Corp.	244	21.7	127	Whirlpool Corp.	284	22.2
182	Sumitomo Chemical Co., Ltd.	189	9.5	209	Wisconsin Alumni	162	-3.7
139	Sumitomo Electric	255	-5.5		Research Foundation		
	Industries, Ltd.			184	Wistron Corp.	187	-69.5
291	Sumitomo Rubber	119	-3.4	71	Xerox Corp.	586	-30.0
	Industries, Ltd.	400	24.5	256	Xiaomi Inc.	138	new
188	Sumitomo Wiring Systems, Ltd.	183	24.6	263	Xilinx, Inc.	134	-15.7
165	Sun Patent Trust	204	42.2	165	Xperi Corp.	204	6.4
157	Symantec Corp.	214	0.9	271	Yamaha Motor Co., Ltd.	129	10.1
237	Synaptics, Inc.	148	new	105	Yazaki Corp.	349	-12.9
222	Syngenta Participations AG	154	16.9	240		147	-11.6
10	Taiwan Semiconductor Manufacturing Co., Ltd.	2,408	6.1	93	ZTE Corp.	407	-16.0
177	TDK Corp.	194	22.2				
119	TE Connectivity	301	8.0				
19	Telefonaktiebolaget LM Ericsson	1,551	-0.1				
102	Tencent Technology (Shenzhen) Co. Ltd.	354	25.1				
42	Texas Instruments, Inc.	923	3.9				
192	Thales	178	12.9				
49	The Dow Chemical Co.	765	7.8				
144	Thomson Licensing S.A.	242	-7.4				
286	T-Mobile, USA, Inc.	124	new				
94	Tokyo Electron Ltd.	403	3.7				
260	Toray Industries Inc.	136	5.1				
16	Toshiba Corp.	1,891	-1.5				
247	Toyoda Jidoshokki Seisakusho K.K.	142	new				

END NOTES:

- 1. "New" in the percent change column indicates that the company was not on the Top 300 list in 2016.
- 2. The number of patents granted does not necessarily indicate the value of a company's technology, the effectiveness of its R&D, or whether it will be profitable. The number of patents per company varies widely from industry to industry and from company to company within an industry.
- 3. This report was compiled by IPO from data provided by the U.S. Patent and Trademark Office. Patents reported are utility patents granted during calendar year 2017 that listed the organization or a subsidiary as the owner on the printed patent document. Patents in the name of a majority-owned subsidiary are included with patents of the parent organization if the organization asked IPO to include subsidiaries. Patents that were granted to two or more organizations jointly are attributed to the organization listed first on the patent document.
- 4. The number of utility patents granted by the USPTO increased to 318,829 in 2017 from 303,051 in 2016.
- 5. IPO has published this report annually since 1984 as a service to its members. For annual lists, go to www.ipo.org/top-300.
- 6. For next year's list, IPO will include patents of majority-owned subsidiaries under the name of the parent if the parent provides the names of such subsidiaries to IPO at info@ipo.org by 1 March 2019.